

Supplemental Watershed Plan - EIS #4

**Table 3, Structural Data - Dams with planned storage capacity
Lost River Subwatershed, West Virginia**

Item	Unit	Structure number				
		4	10	16	27	Total
Class of structure		C	C	C	C	xxxx
Seismic zone		1	1	1	1	xxxx
Drainage area	mi ²	32.41	6.69	11.88	3.75	54.73
Runoff curve no. (1-day) (AMC II)		77	71	73	70	xxxx
Time of concentration (T _c)	hrs	4.22	1.40	2.18	1.48	xxxx
Elevation top dam	ft	1480.9	1,621.0	1,574.4	1,952.1	xxxx
Elevation crest auxiliary spillway	ft	1,464.4	1,608.9	1,560.3	1,939.9	xxxx
Elevation crest high stage inlet	ft	1,419.8	1,587.2	1,530.9	1,909.8	xxxx
Elevation crest low stage inlet	ft	-----	-----	-----	-----	xxxx
Auxiliary spillway type		Rock	Rock	Rock	Rock	xxxx
Auxiliary spillway bottom width	ft	500	300	400	160	xxxx
Auxiliary spillway exit slope	%	1.5	1.8	1.5	2.0	xxxx
Maximum height of dam	ft	89.0	83.3	78.4	75.0	xxxx
Volume of fill	yd ³	1,134,500	381,350	1,338,000	345,000	3,198,850
Total capacity ^{1/}	acre ft	6,611	1,681	2,531	570	11,393
Sediment submerged ^{2/}	acre ft	605	202	212	67	1,086
Sediment aerated	acre ft	48	16	17	5	86
Recreation	acre ft	-----	-----	-----	-----	0
Water supply	acre ft	-----	400	400	-----	800
Floodwater retarding	acre ft	5,958	1,063	1,902	498	9,421
Between high and low stage	acre ft	-----	-----	-----	-----	0
Surface area						
Sediment pool	acres	66.0	18.0	27.3	7.2	118.5
Recreation pool	acres	-----	-----	-----	-----	0.0
Water supply pool	acres	-----	34.6	46.6	-----	81.2
Floodwater retarding pool	acres	201.0	66.2	86.8	29.0	383.0
Principal spillway design						
Rainfall volume (1-day)	in	6.53	6.80	6.80	6.75	xxxx
Rainfall volume (10-day)	in	10.88	11.10	9.20	11.30	xxxx
Runoff volume (10-day)	in	5.76	4.78	4.15	4.78	xxxx
Capacity of low stage (max)	ft ³ /s	-----	-----	-----	-----	xxxx
Capacity of high stage (max)	ft ³ /s	801	212	409	195	xxxx
Dimensions of conduit	dia. - in	60	36	48	36	xxxx
Type of conduit		R/C pipe	R/C pipe	R/C pipe	R/C pipe	xxxx
Frequency operation-auxil. spillway	% chance	1.0	1.0	1.0	1.0	xxxx
Auxiliary spillway hydrograph						
Rainfall volume	in	13.18	10.80	10.90	10.86	xxxx
Runoff volume	in	10.17	7.08	7.76	7.00	xxxx
Storm duration	hrs	24	6	6	6	xxxx
Velocity of flow (V _e)	ft/s	13.10	17.50	10.60	10.24	xxxx
Max. reservoir water surface elev.	ft	1,472.60	1,615.10	1,564.98	1,944.20	xxxx
Freeboard hydrograph						
Rainfall volume	in	32.10	27.60	27.60	27.55	xxxx
Runoff volume	in	28.77	23.24	23.72	23.00	xxxx
Storm duration	hrs	24	6	6	6	xxxx
Max. reservoir water surface elev.	ft	1,480.9	1,621.0	1,574.4	1,952.1	xxxx
Capacity equivalents						
Sediment volume	in	0.38	0.61	0.34	0.36	xxxx
Floodwater retarding volume	in	3.45	2.98	3.00	2.49	xxxx
Recreation volume	in	-----	-----	-----	-----	xxxx
Water supply volume	in	-----	1.12	0.63	-----	xxxx

^{1/}Total capacity at crest of auxiliary spillway.

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^{2/}Based on storing 100-year submerged sediment accumulation.